

FIG. 1

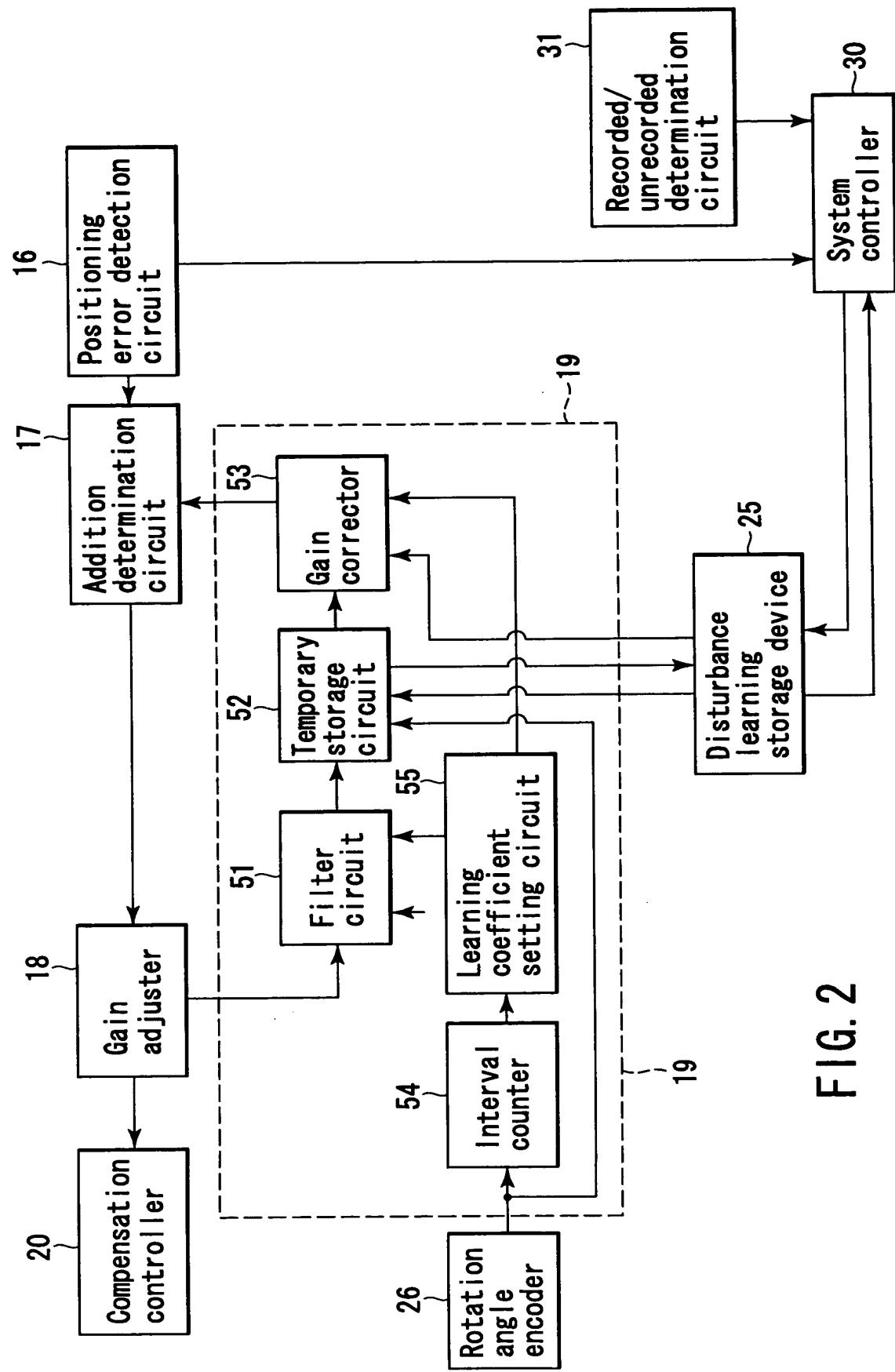
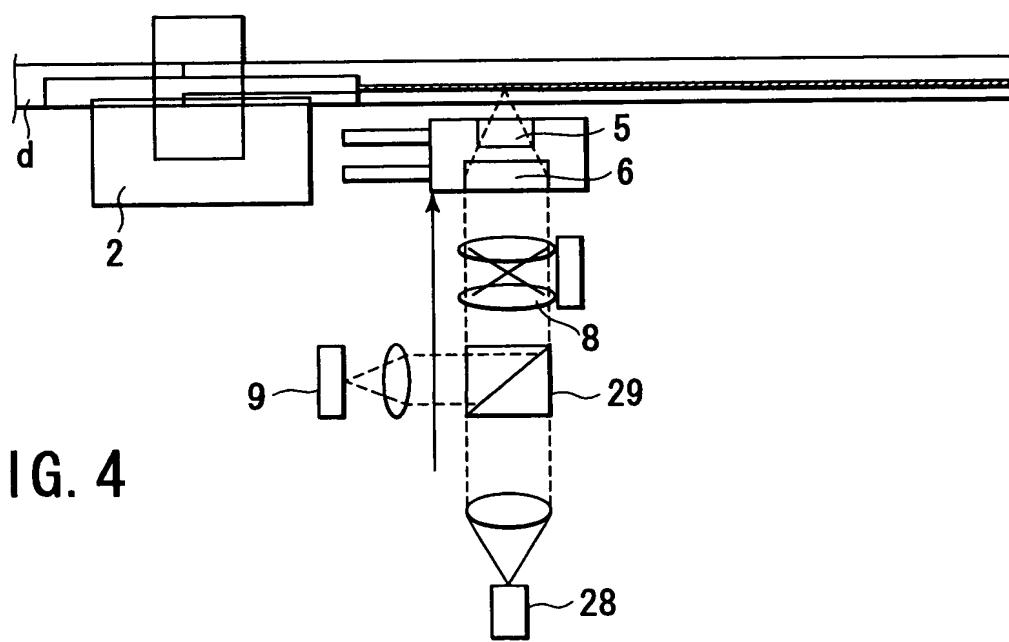
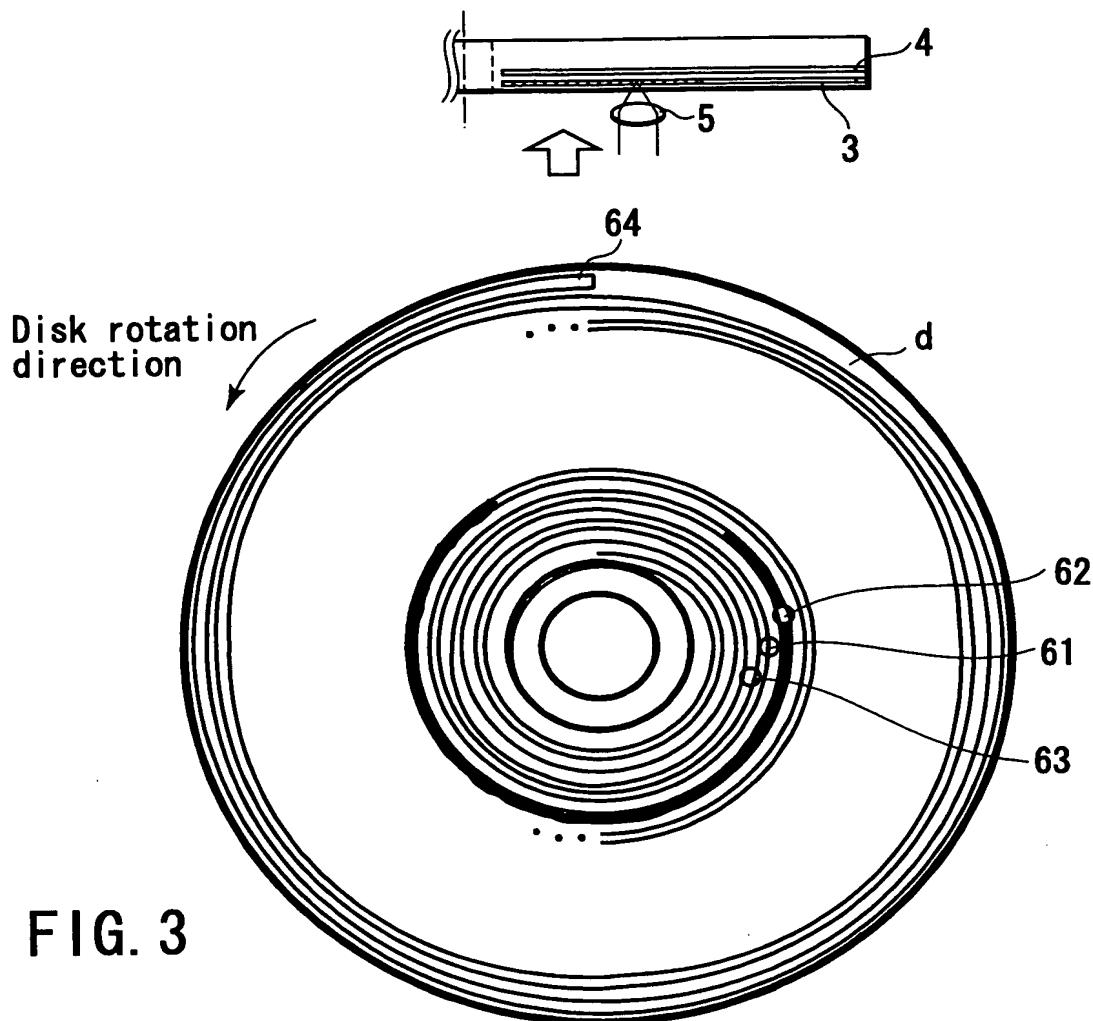


FIG. 2



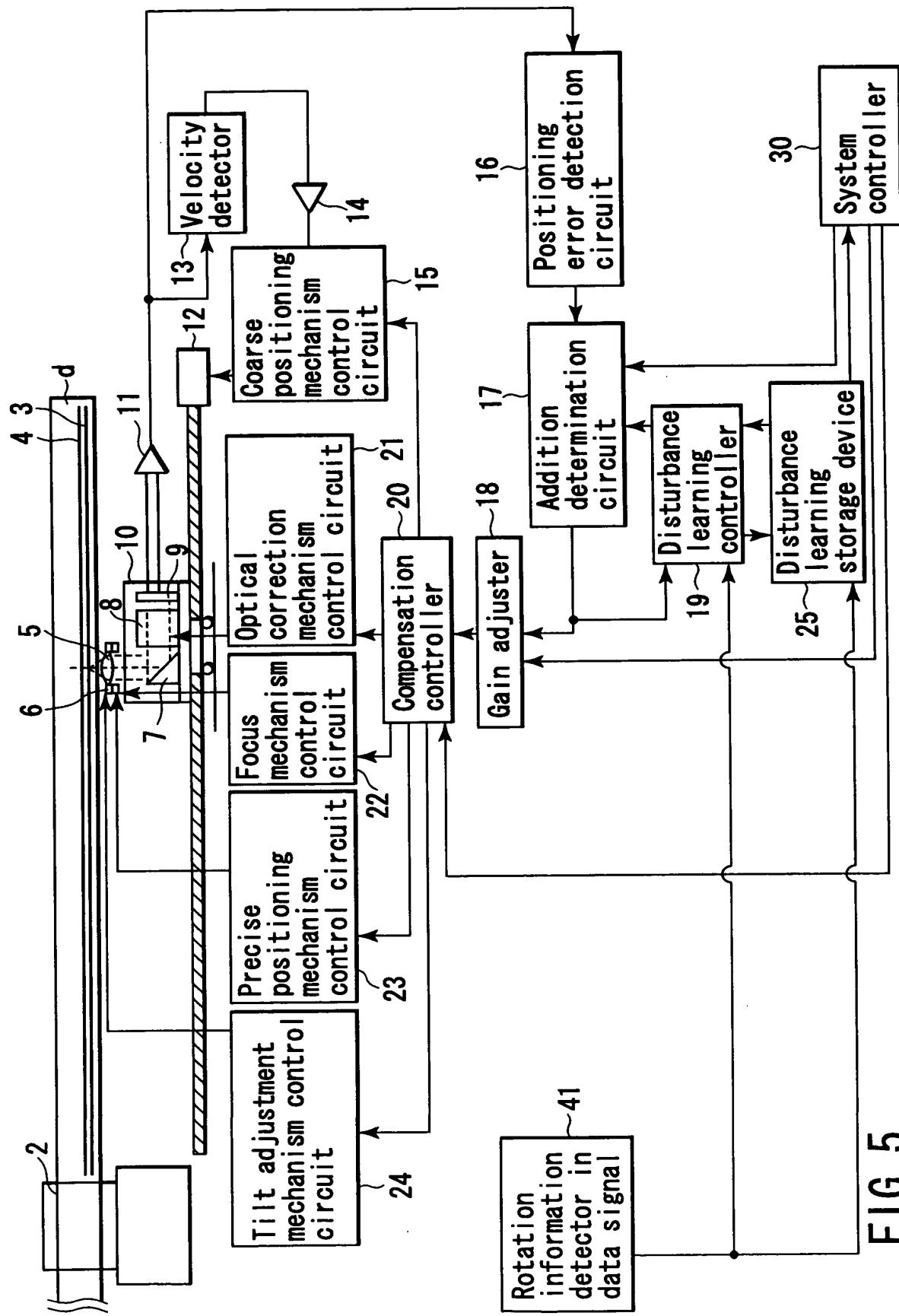


FIG. 5

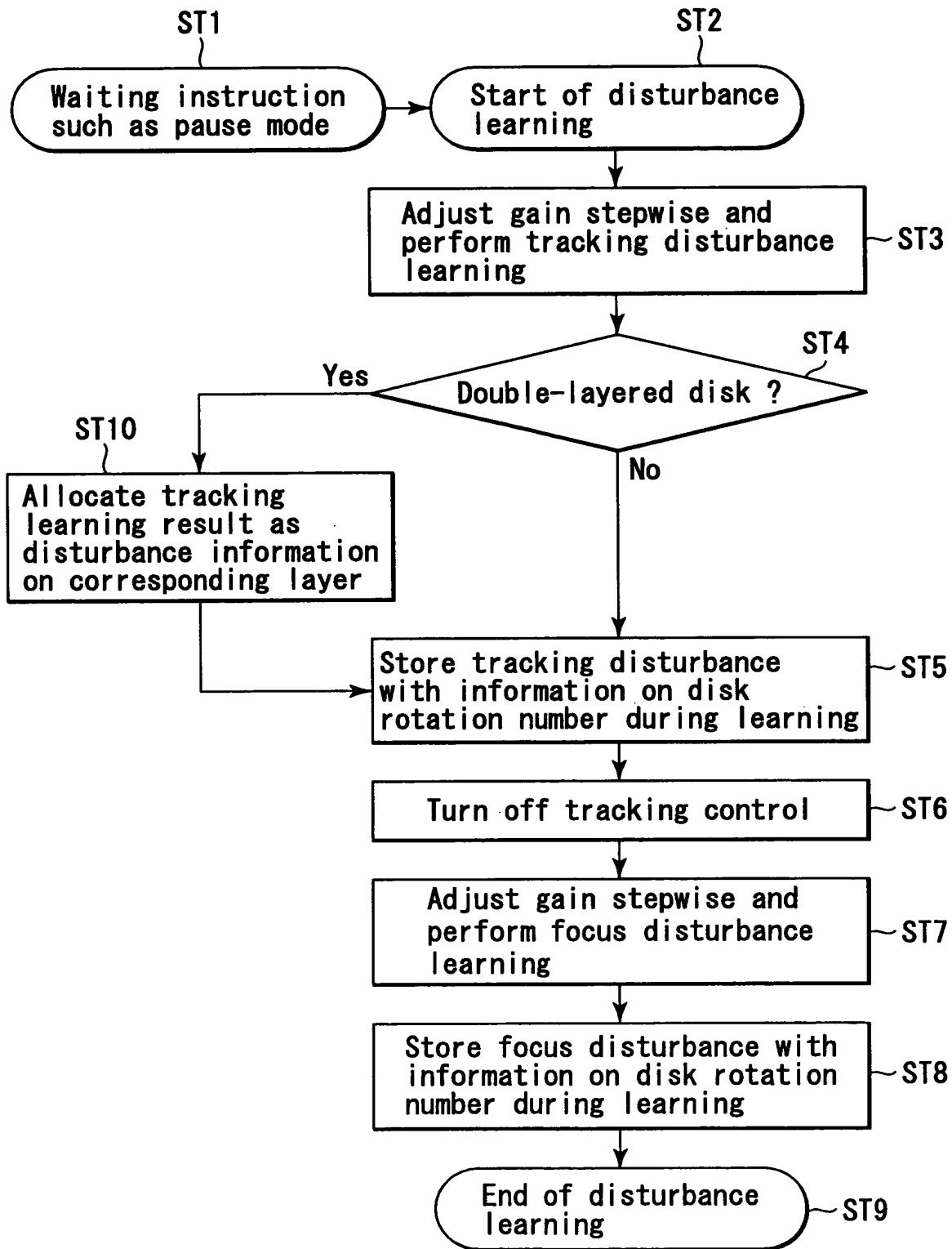
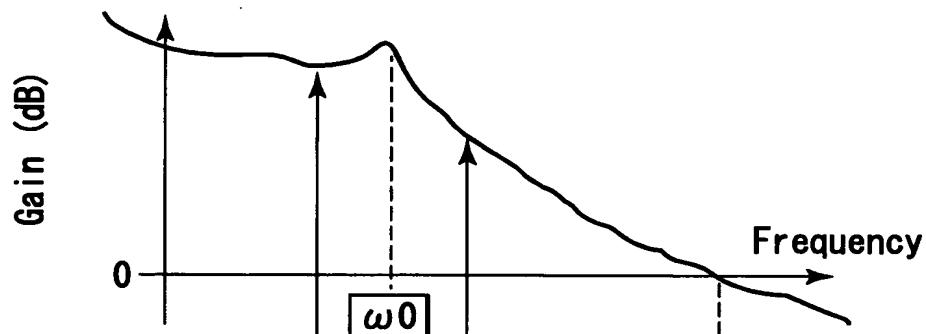


FIG. 6

Open loop transmission characteristic
of control system



Disk rotation frequency during learning

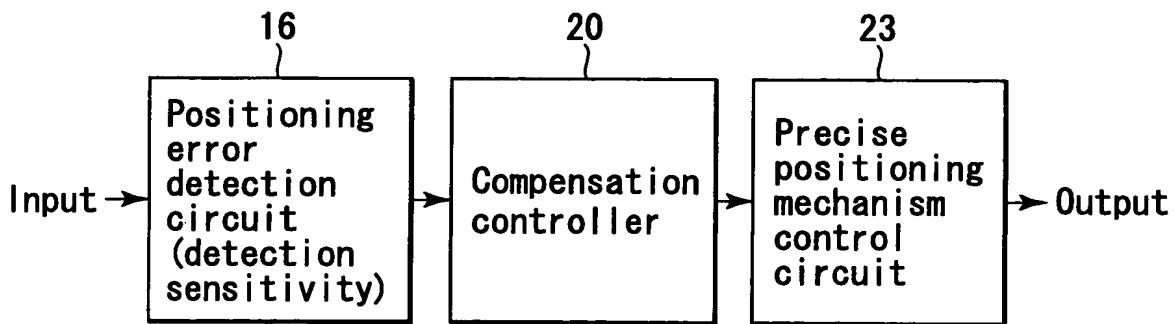
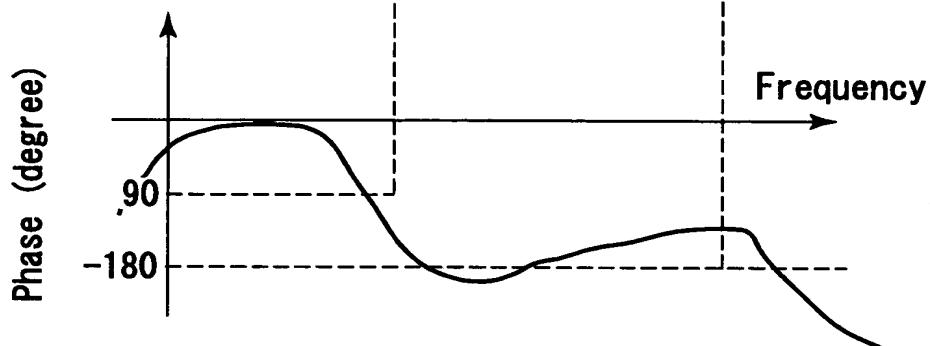


FIG. 7

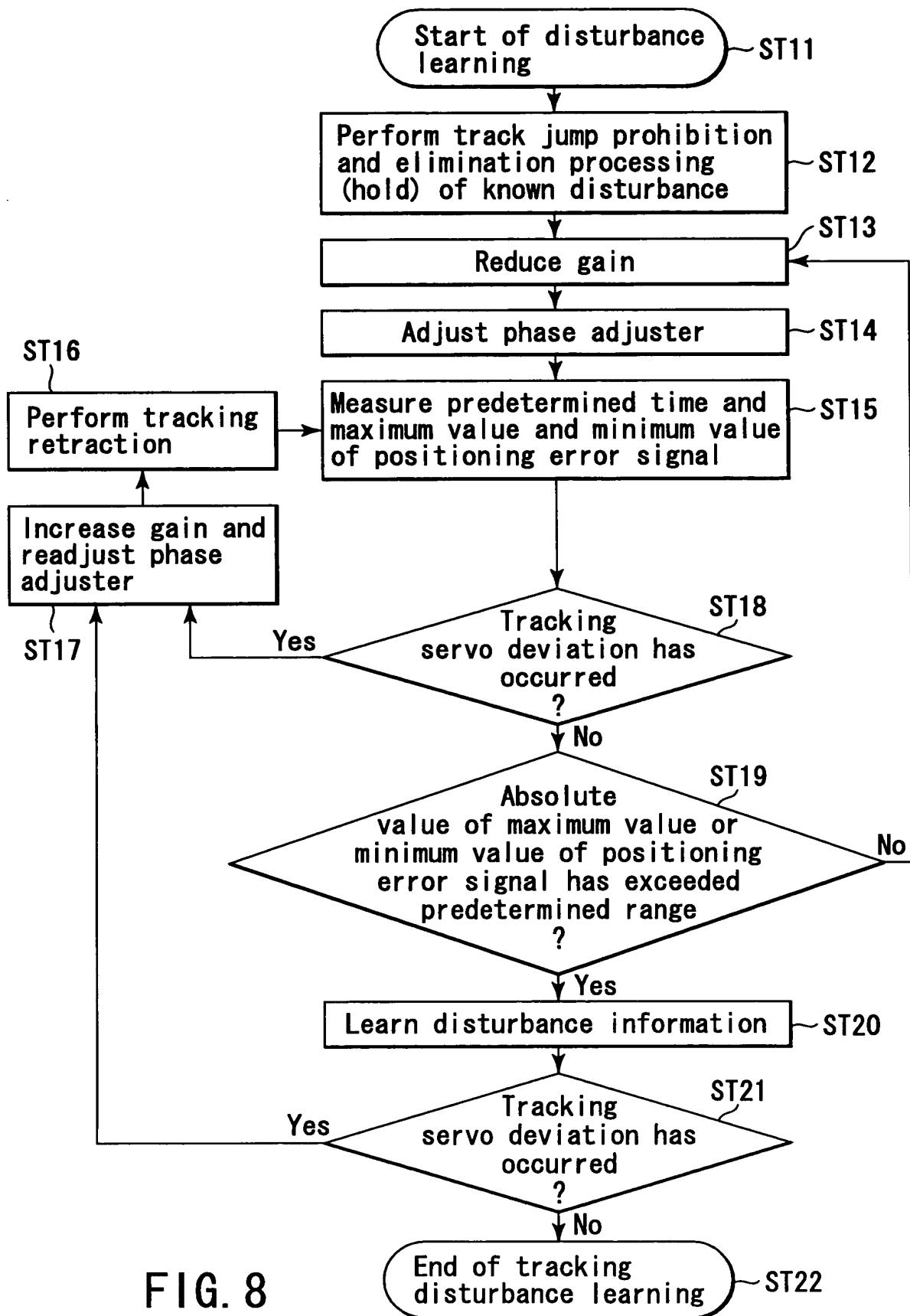


FIG. 8

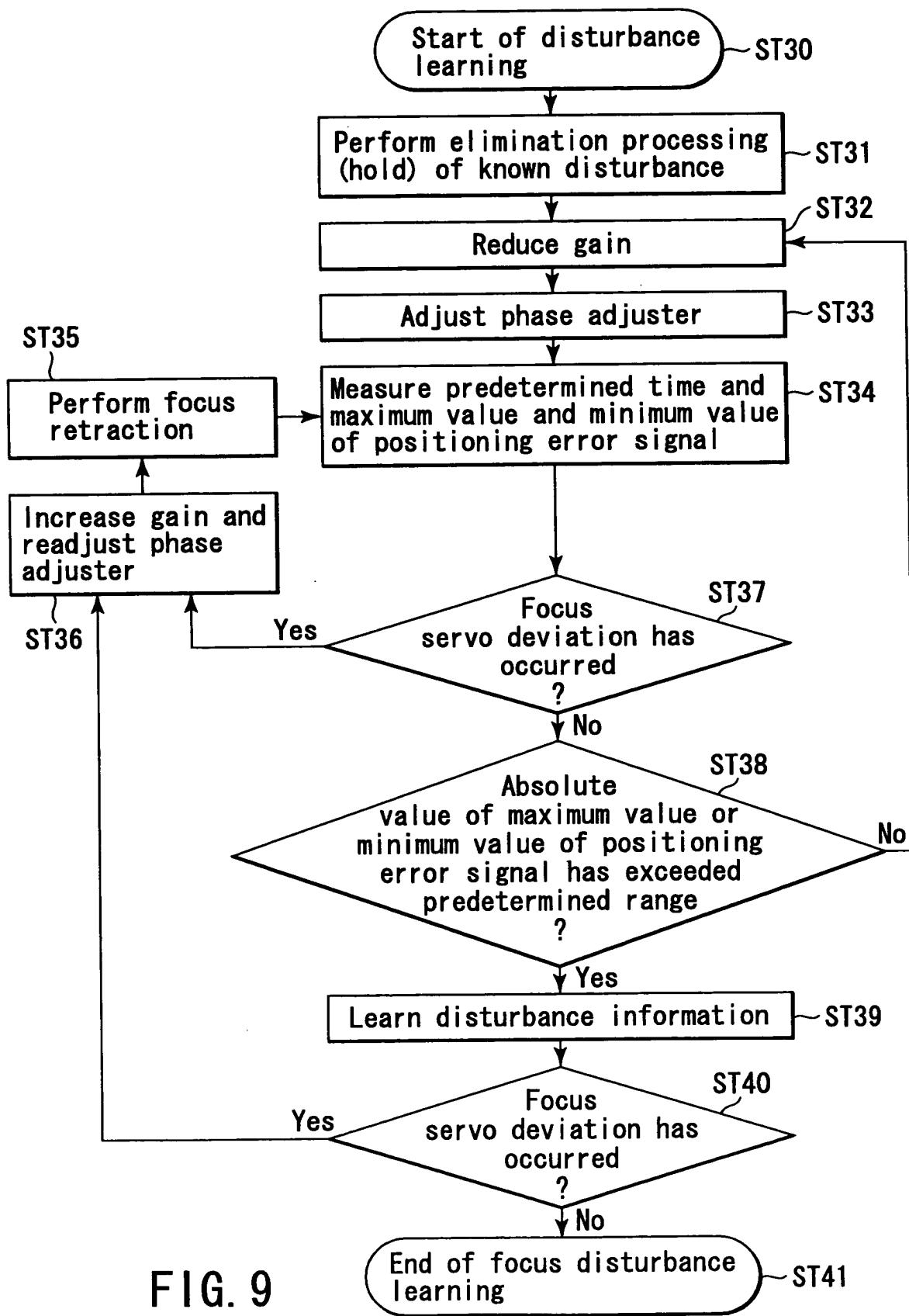


FIG. 9

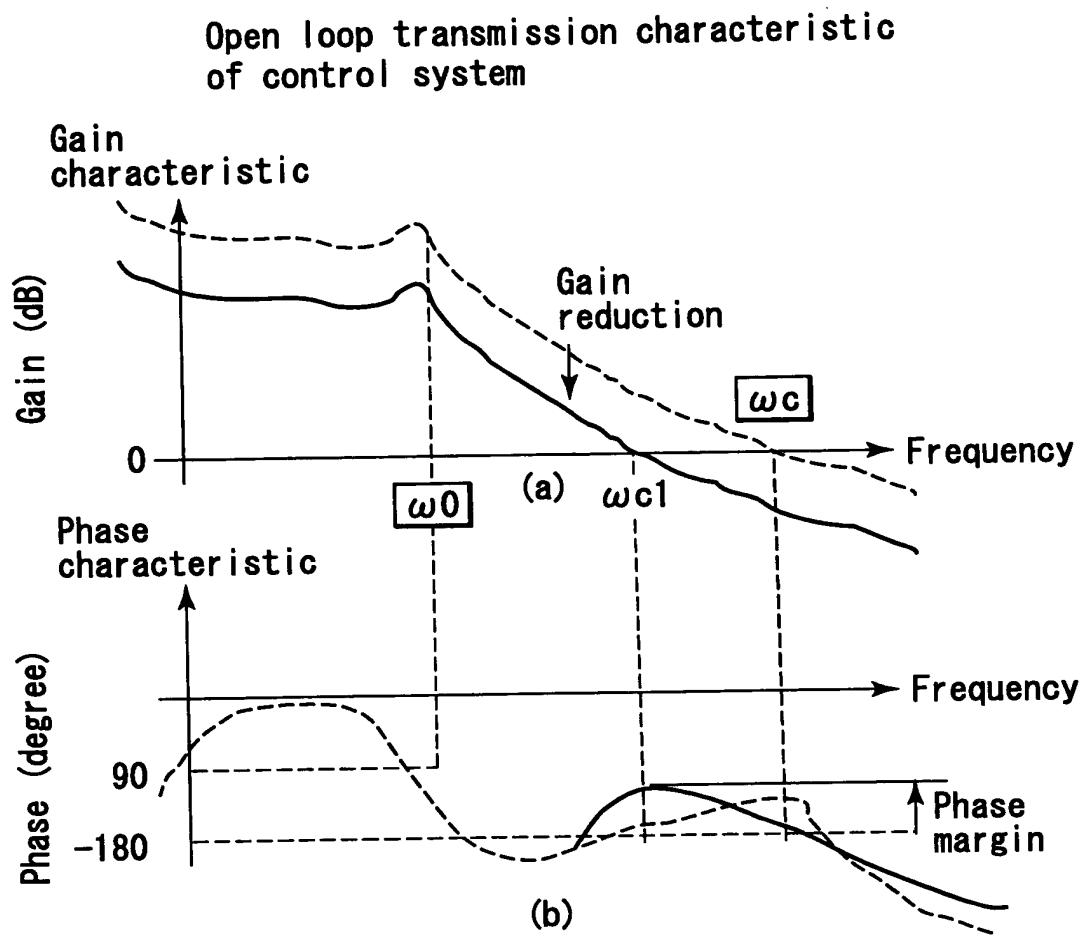


FIG. 10

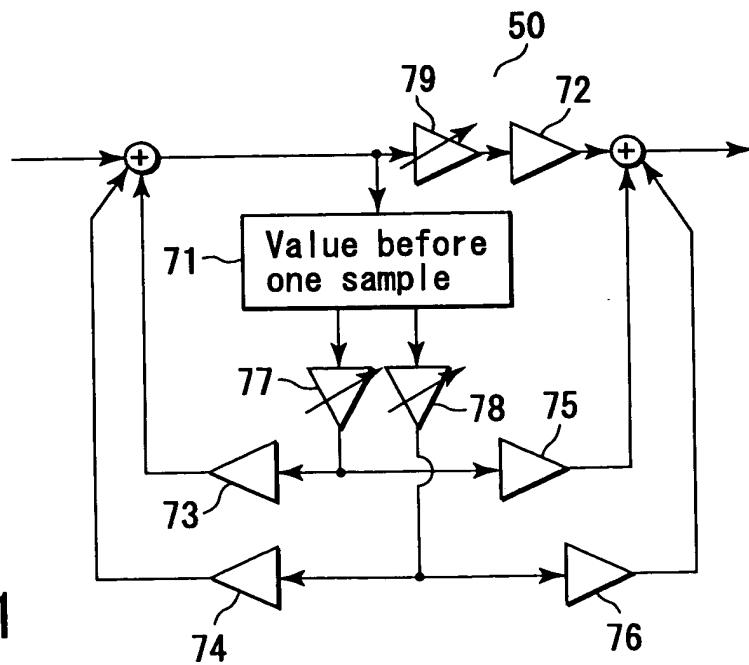
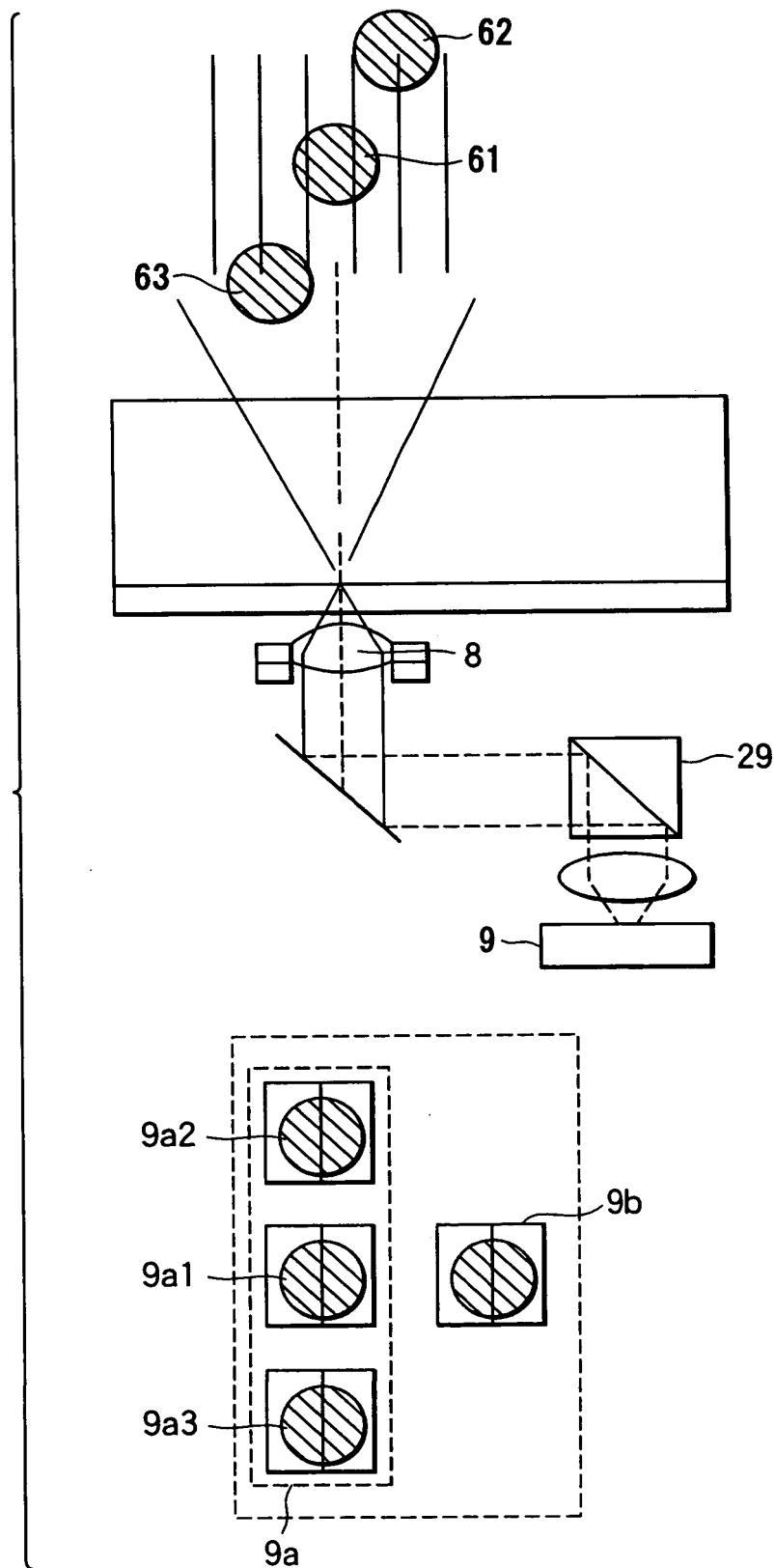
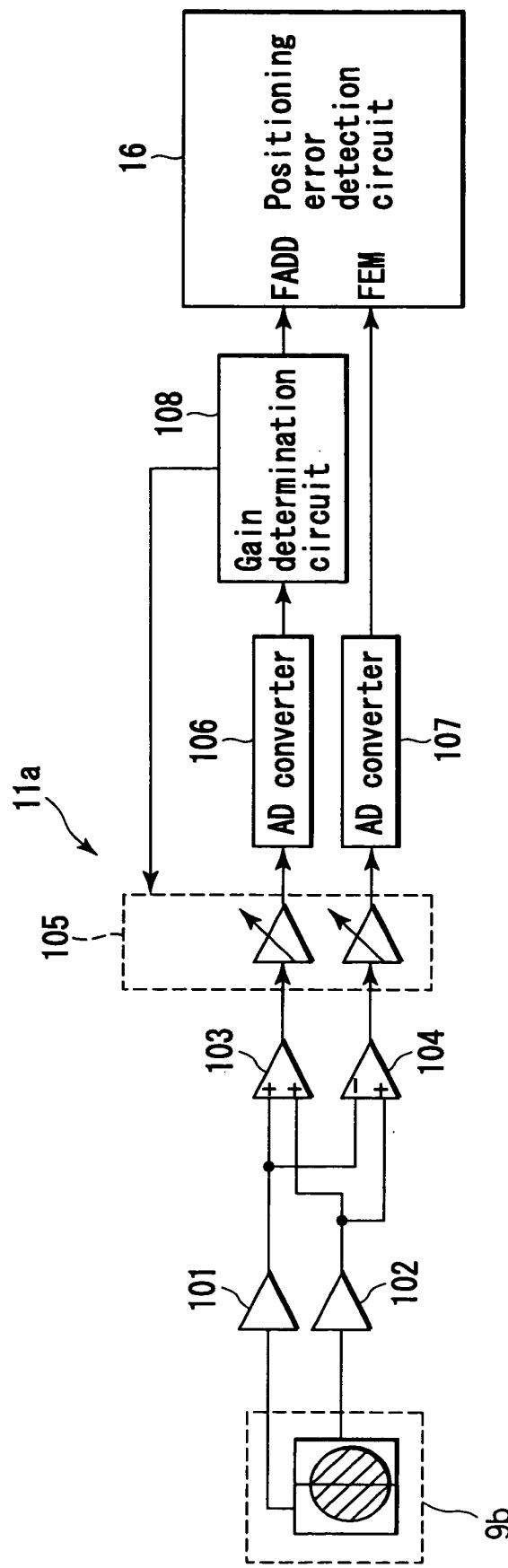


FIG. 11

FIG. 12





Normal : FES (focus positioning error signal) = FEM

FIG. 13

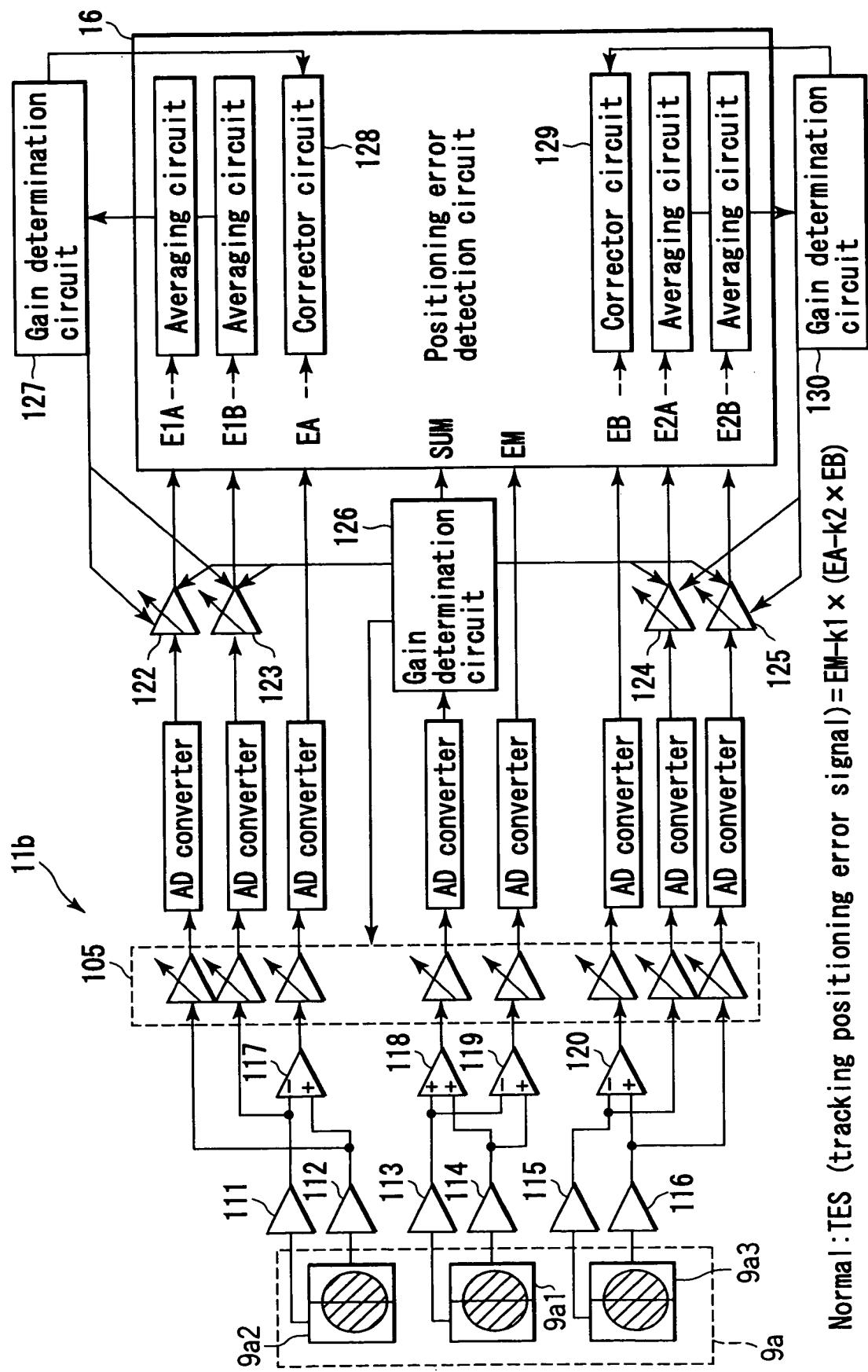


FIG. 14

In the case where gain has increased

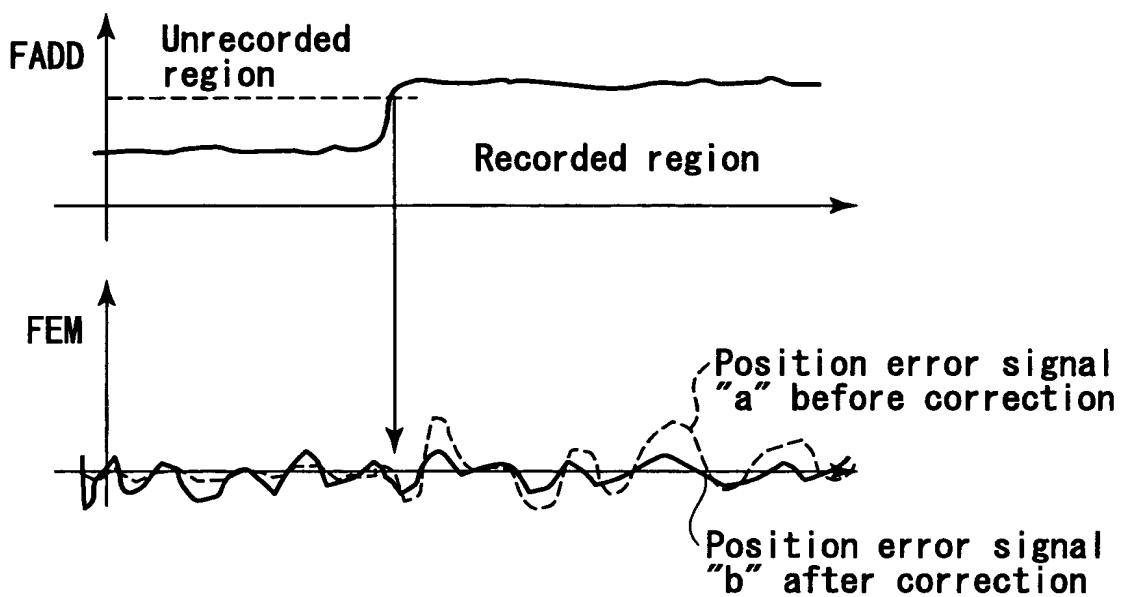


FIG. 15

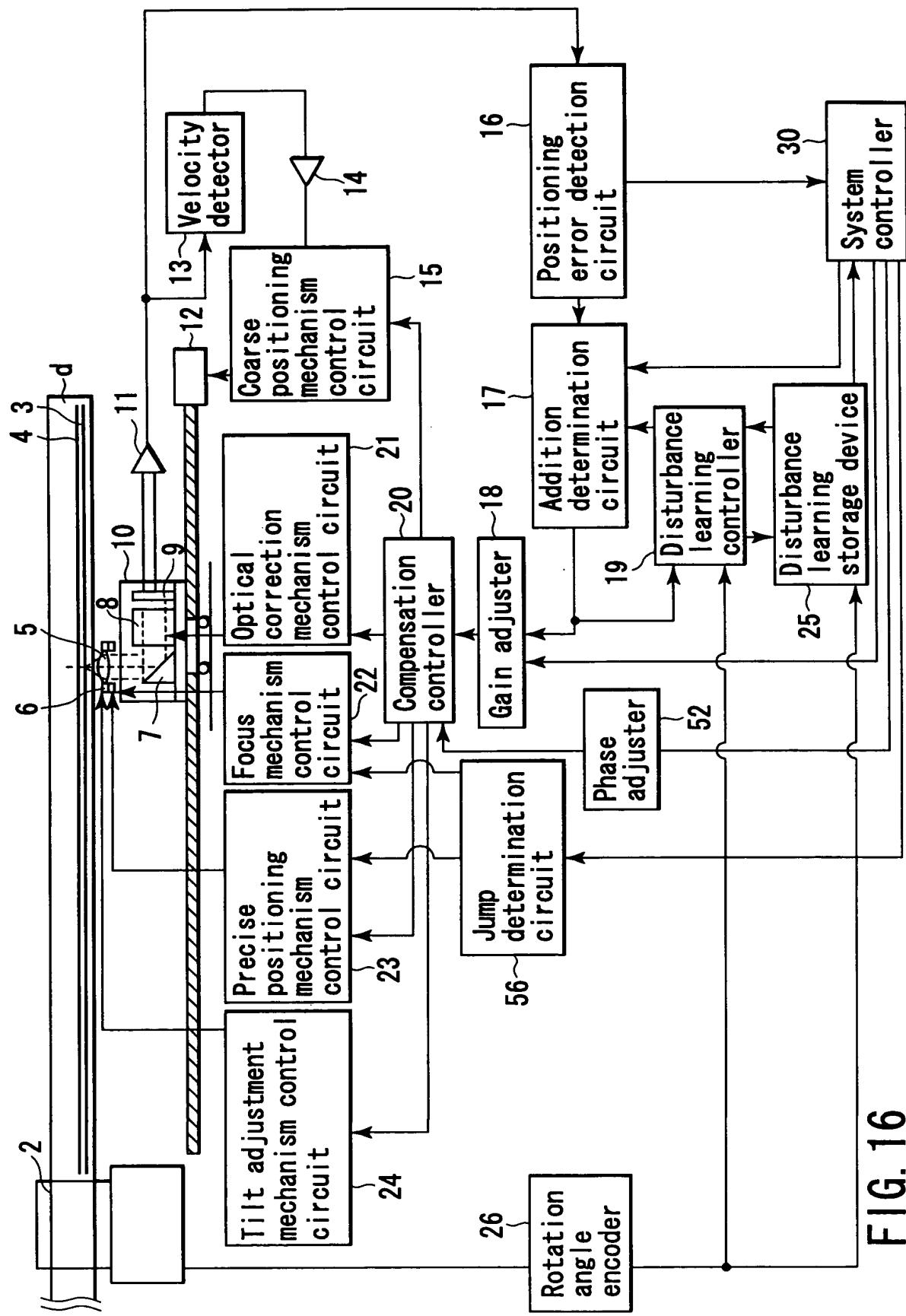


FIG. 16

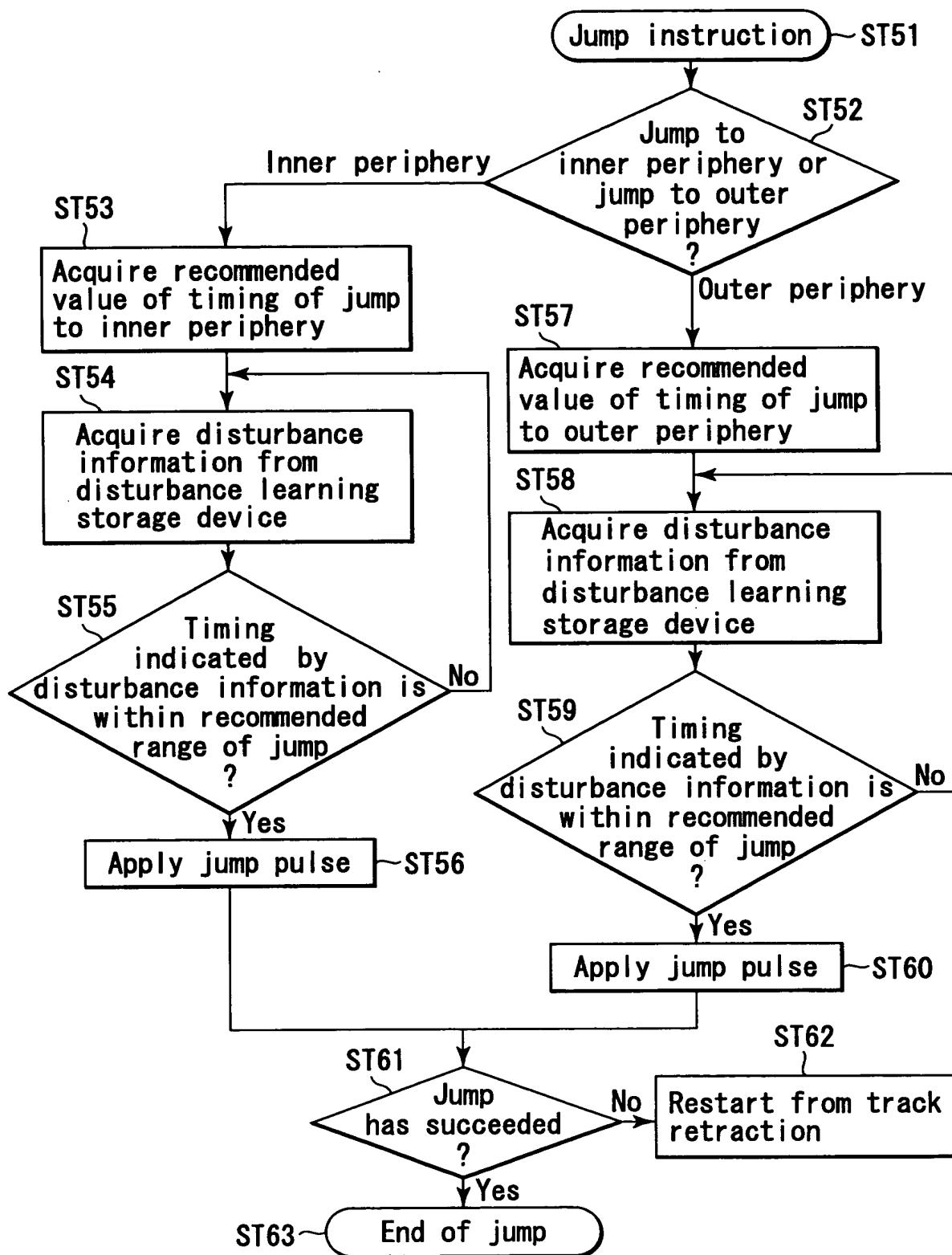
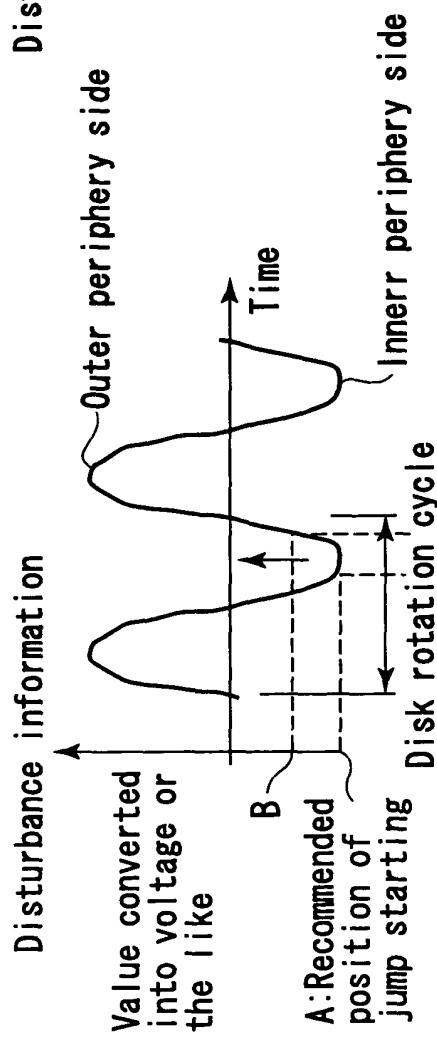
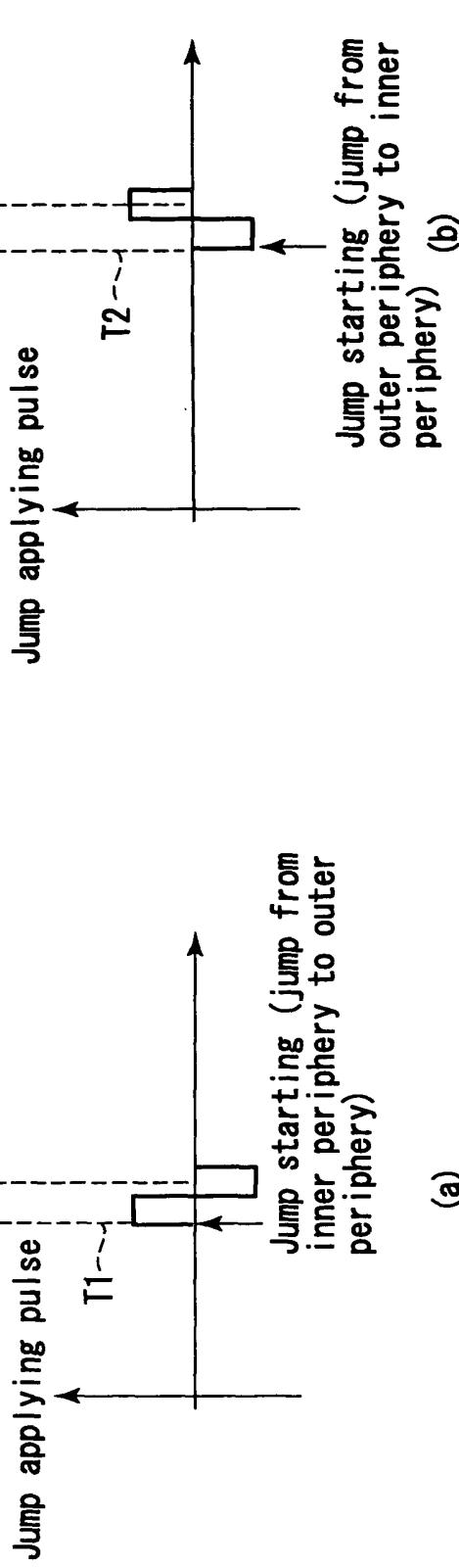
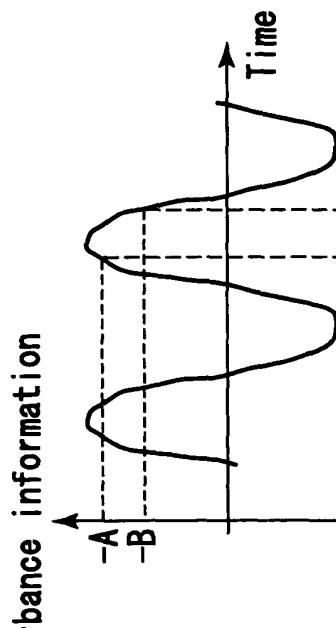


FIG. 17

Learned disturbance information
(in the case of eccentricity)



Learned disturbance information



(a)

FIG. 18

Jump starting (jump from outer periphery to inner periphery) (b)

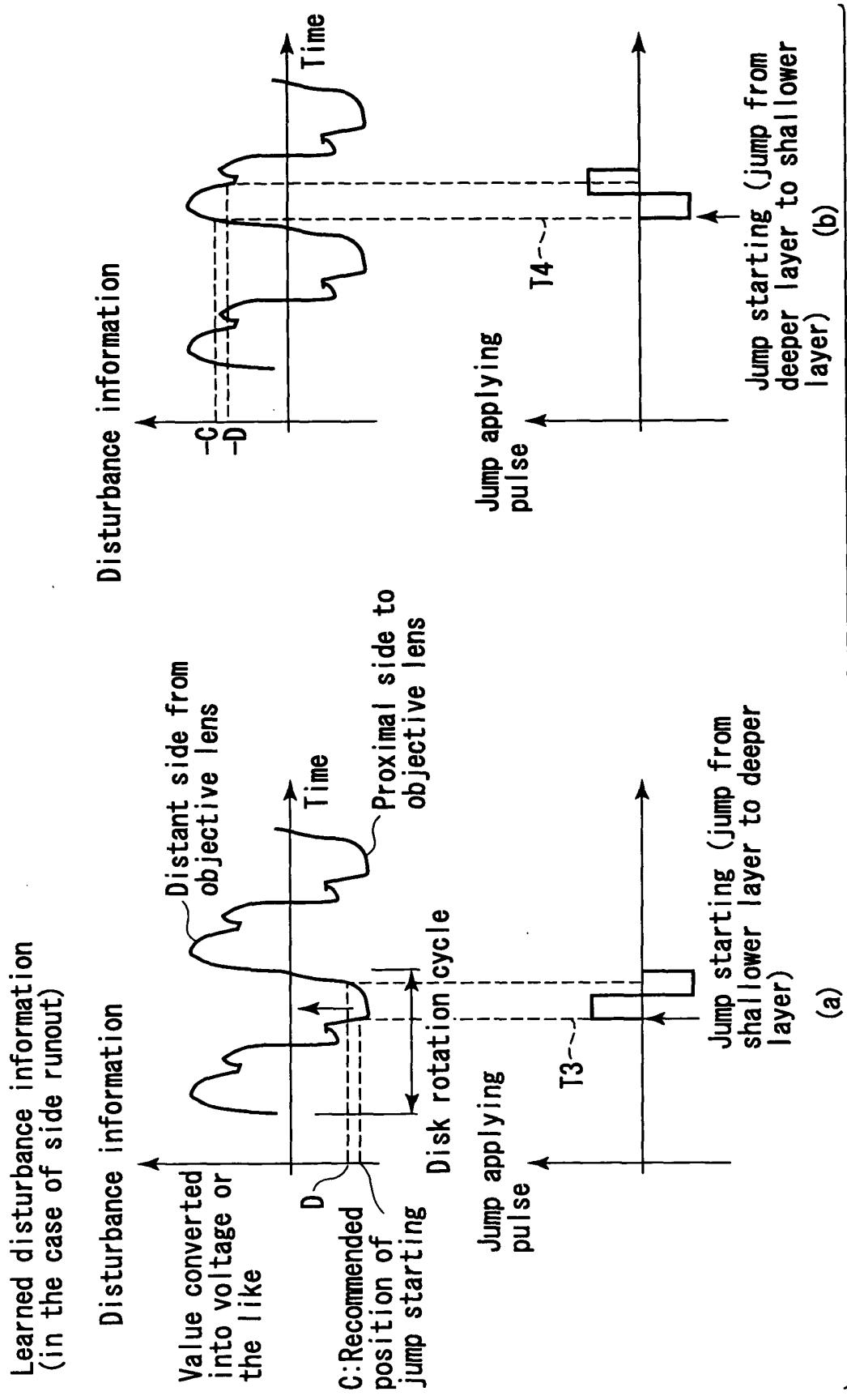


FIG. 19

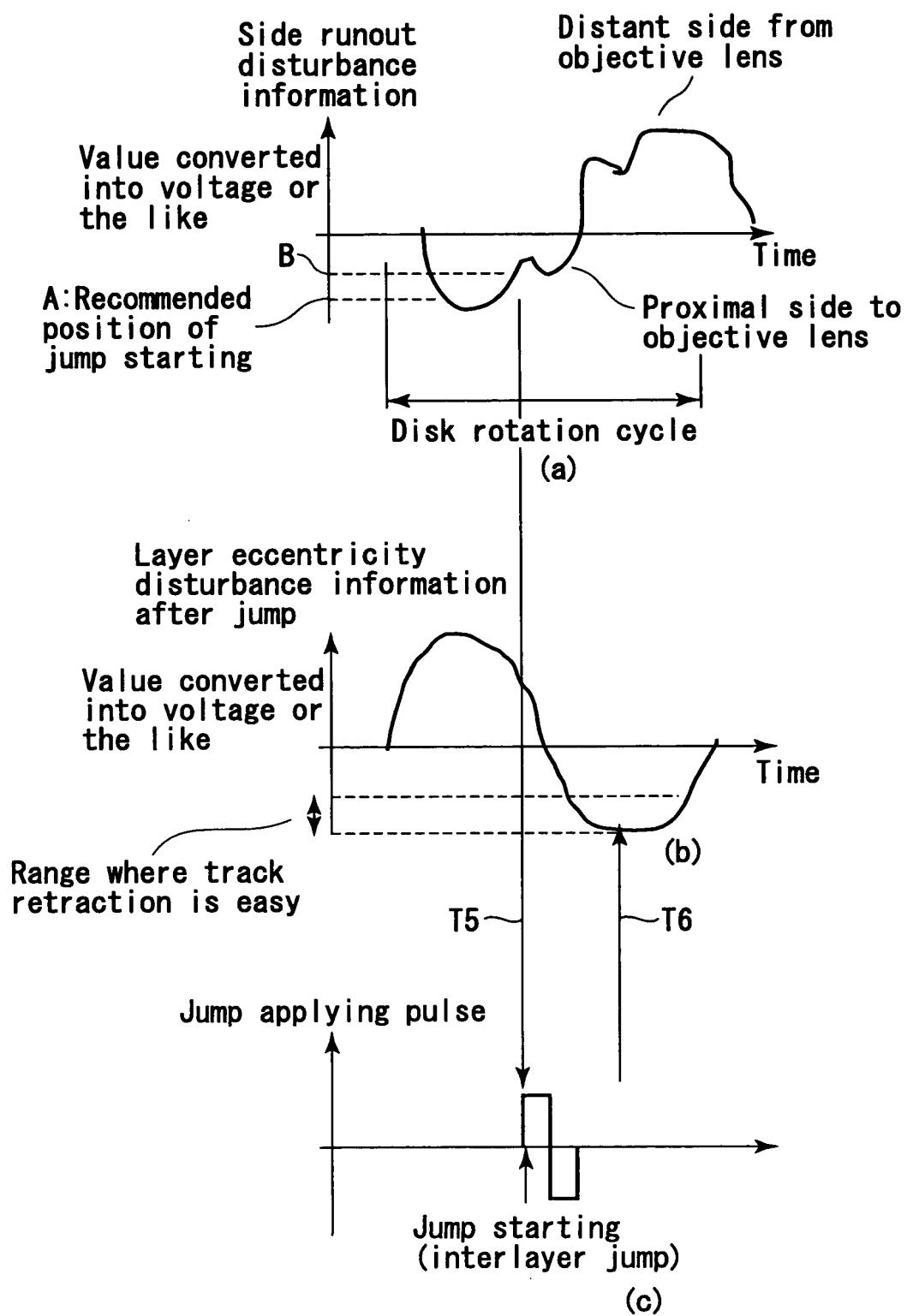


FIG. 20

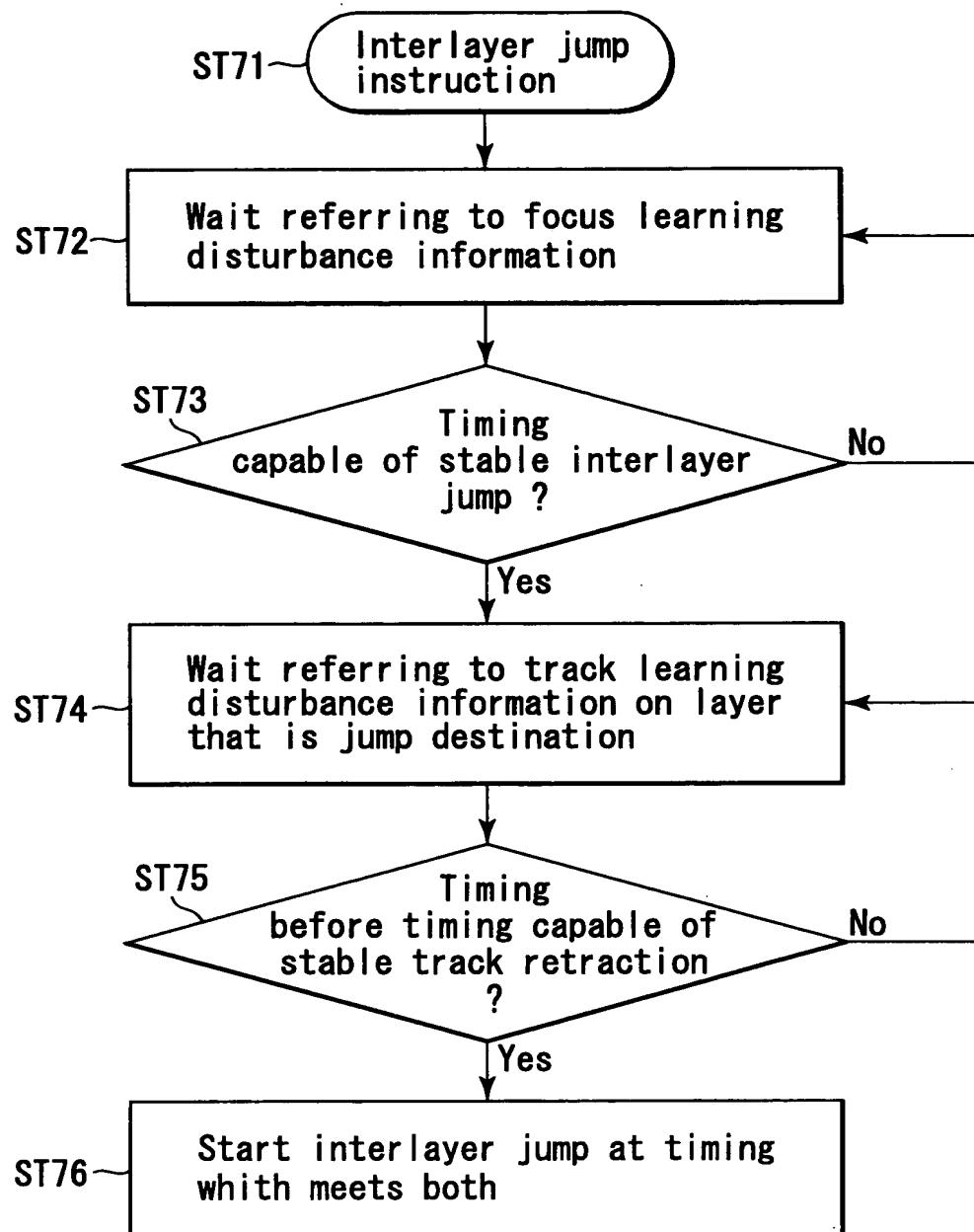


FIG. 21

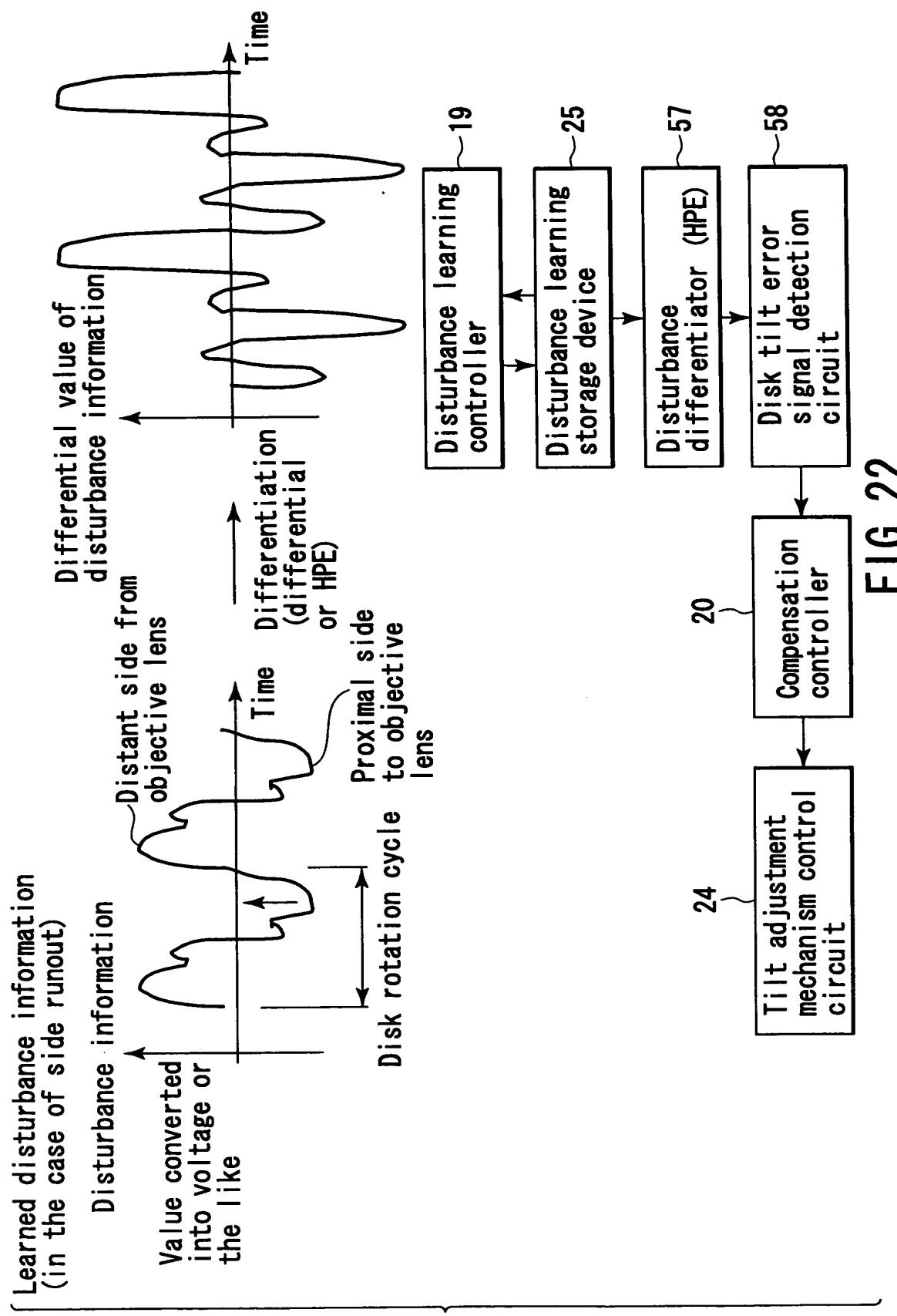


FIG. 22

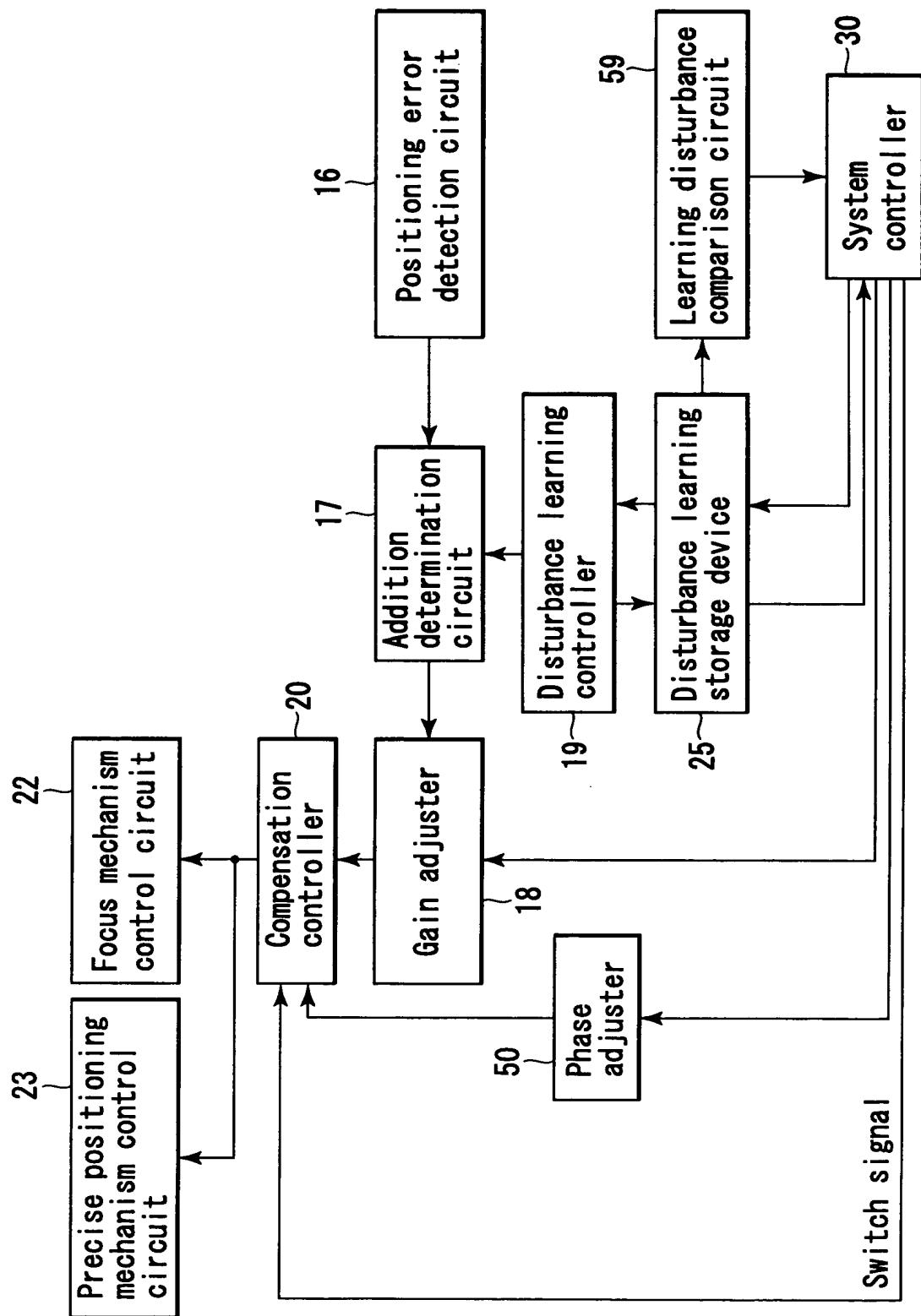


FIG. 23

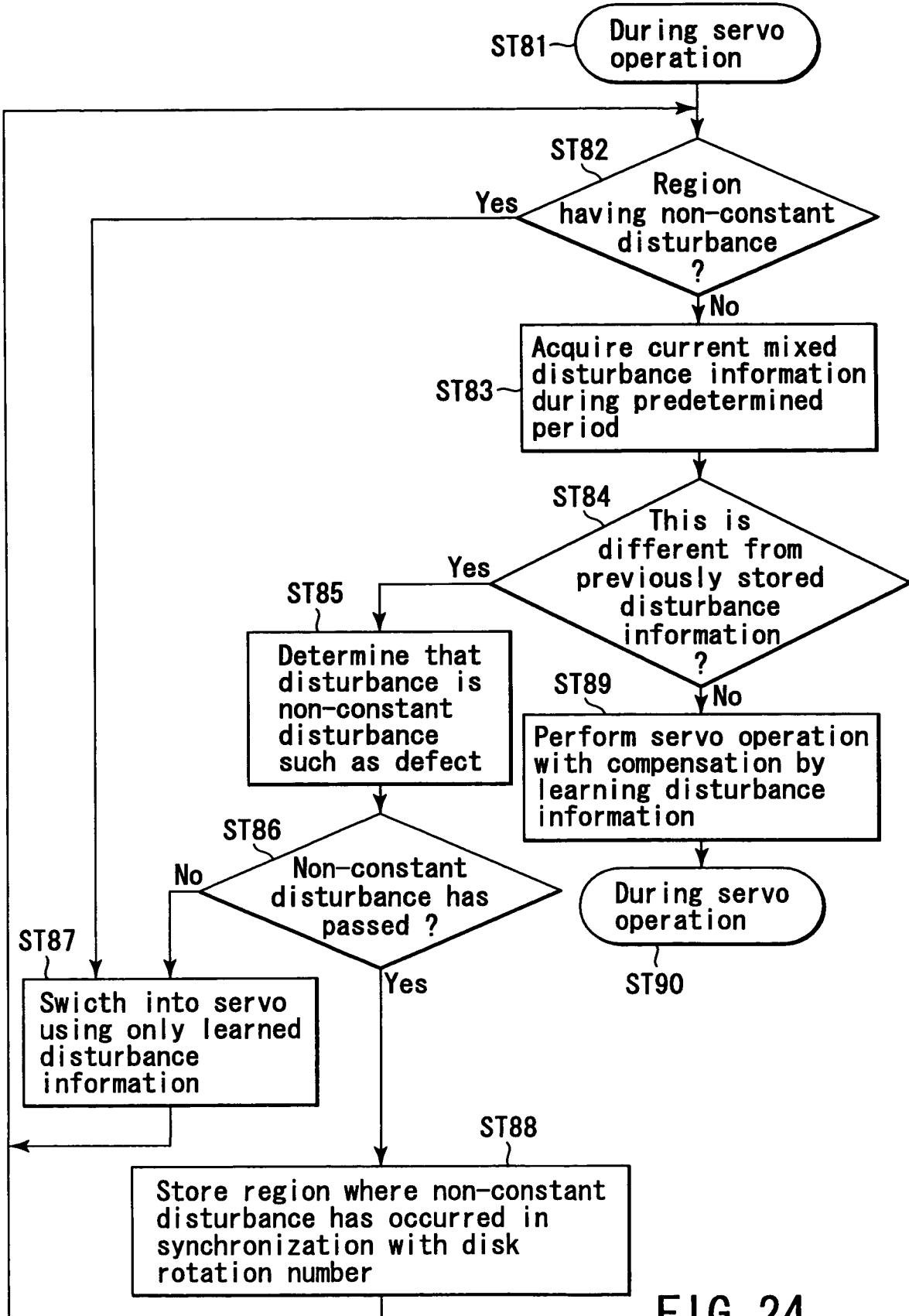


FIG. 24

Open loop transmission characteristic
of control system

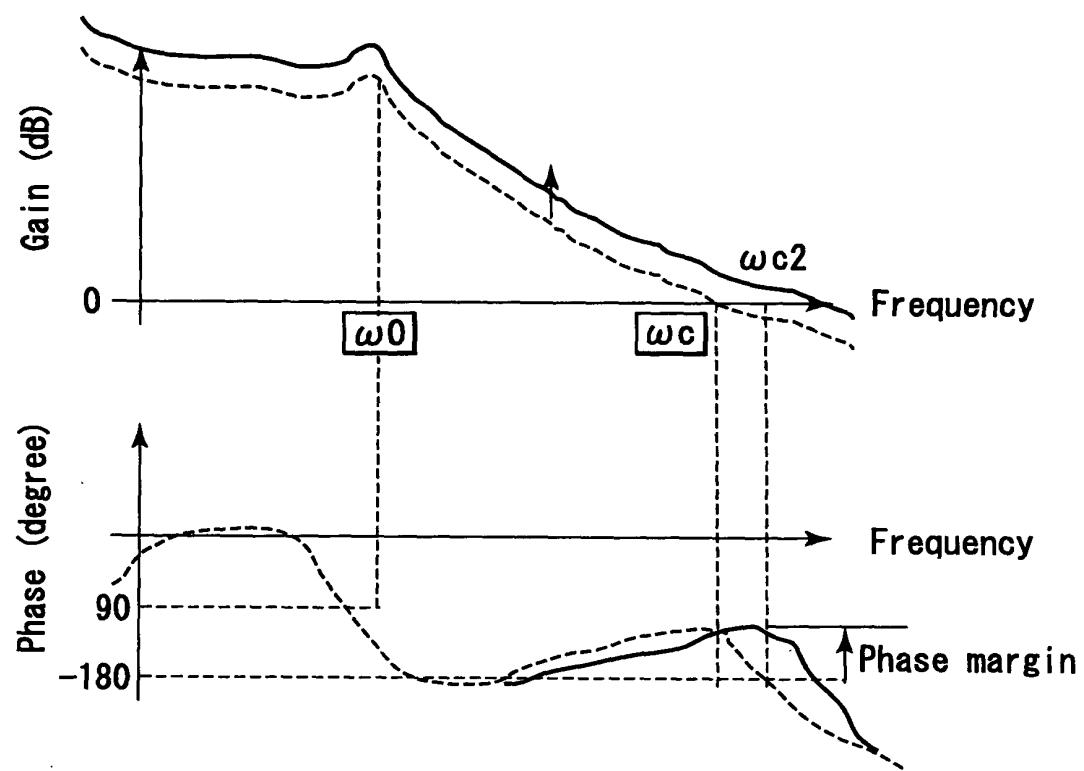


FIG. 25